

The invention provides a method for fabricating semiconductor memory component, in particular a DRAM or FRAM, having a silicon substrate, an intermediate oxide layer (1) arranged on said substrate, an upper layer (3, made of a ferroelectric material or made of a material having a high dielectric constant being arranged on said intermediate oxide layer, a contact hole (8) \extending as far as the interface between the silicon substrate and the upper layer being introduced by means of \backslash etching proceeding from an opening (5) in a perforated mask, which was formed in a preceding step. For the perforated mask, use is made of a material which is stable at high temperatures, to be precise stable at high \backslash temperatures so that $O_3/TEOS-SiO_2$ can subsequently be \deposited onto this layer (e.g. polyimide) without \ degradation of this layer. etching is performed \sing the perforated mask into the intermediate oxide layex (1) to form a depression (8'). A layer made of $O_3/TEO_{S}-SiO_2$ is deposited onto the structure thus obtained. The layer made of $O_3/TEOS-SiO_2$ is removed from the bottom\of the depression (8') by etching, and the depression (8') is thereupon lowered by etching in order to produce the contact hole as far as the interface with the silicon substrate, the latter being uncovered.

(Figure 2G)

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